CU Boulder's Biomedical Engineering program offers students a flexible degree program to achieve their degree and research goals. Biomedical engineering is an exciting, multidisciplinary field that lies at the intersection of medicine, biology, and engineering.

With a cross-listed curriculum and an interdisciplinary faculty roster, the BME program delivers a multi-faceted and rigorous education in biomedical engineering. Our department consists of 32 faculty members from multiple backgrounds and disciplines. They conduct research in the areas of biomechanics, tissue engineering, biomaterials, drug delivery, molecular imaging, image-guided therapy, point-of-care diagnostics, biosensors, prosthetics, bioastronautics, systems biology, and many more.

Our program offers students the opportunity to take courses in any of the following areas:

- Biomechanics
- Imaging and Diagnostics
- Medical Devices
- Therapeutics

The BME program is directed by Professor Mark Borden. For more information, visit the Biomedical Engineering Program (https://www.colorado.edu/bme/) website.

Course code for this program is BMEN.

### Master's Degree

- Biomedical Engineering - Master of Science (MS)
  (catalog.colorado.edu/graduate/colleges-schools/engineering-applied-science/programs-study/biomedical-engineering/biomedical-engineering-master-science-ms/)

### Doctoral Degree

- Biomedical Engineering - Doctor of Philosophy (PhD)
  (catalog.colorado.edu/graduate/colleges-schools/engineering-applied-science/programs-study/biomedical-engineering/biomedical-engineering-doctor-philosophy-phd/)

### Faculty

While many faculty teach both undergraduate and graduate students, some instruct students at the undergraduate level only. For more information, contact the faculty member's home department.

- Ahmed, Alaa A. (https://experts.colorado.edu/display/fisid_144736/) Associate Professor; PhD, University of Michigan
- Alistar, Mirela Assistant Professor; PhD, Danmarks Tekniske Universitet (Denmark)
- Borden, Mark A. (https://experts.colorado.edu/display/fisid_148514/) Associate Professor; PhD, University of California, Davis
- Bottenus, Nick Assistant Professor; PhD, Duke University
- Calve, Sarah Associate Professor; PhD, University of Michigan
- Chatterjee, Anushree (https://experts.colorado.edu/display/fisid_151712/) Associate Professor; PhD, University of Minnesota
- Clark, Torin K. (https://experts.colorado.edu/display/fisid_155959/) Assistant Professor; PhD, Massachusetts Institute of Technology
- Davis, Robert H. Associate Faculty Director; PhD, Stanford University
- Ding, Xiaoyun (https://experts.colorado.edu/display/fisid_158563/) Assistant Professor; PhD, Pennsylvania State University
- Ferguson, Virginia L. (https://experts.colorado.edu/display/fisid_110131/) Associate Professor; PhD, University of Colorado Boulder
- Fitzgerald, Jessica Instructor; PhD, Northeastern University
- Fox, Jerome Michael (https://experts.colorado.edu/display/fisid_156682/) Assistant Professor; PhD, University of California, Berkeley
- Gopinath, Juliet T. (https://experts.colorado.edu/display/fisid_147075/) Associate Professor; PhD, Massachusetts Institute of Technology
- Hind, Laurel Assistant Professor; PhD, University of Pennsylvania
- Huang, Shu-Wei (https://experts.colorado.edu/display/fisid_159847/) Assistant Professor; PhD, MIT, Cambridge
- Lynch, Maureen Ellen (https://experts.colorado.edu/display/fisid_163404/) Assistant Professor; PhD, Cornell University
- McLeod, Robert R. (https://experts.colorado.edu/display/fisid_107547/) Professor; PhD, University of Colorado Boulder
- Mukherjee, Debanjan Assistant Professor
- Murray, Todd W. (https://experts.colorado.edu/display/fisid_146549/) Professor; PhD, Johns Hopkins University
- Myers, Chris Professor; PhD, Stanford University
- Neu, Corey P. (https://experts.colorado.edu/display/fisid_156210/) Associate Professor; PhD, University of California, Davis
- Park, Won (https://experts.colorado.edu/display/fisid_122676/) Associate Professor, Associate Chair; PhD, Georgia Institute of Technology
- Piestun, Rafael (https://experts.colorado.edu/display/fisid_118538/) Professor; PhD, Israel Instut of Tech (Israel)
- Rentschler, Mark E. (https://experts.colorado.edu/display/fisid_146091/) Associate Professor; PhD, University of Nebraska-Lincoln
- Sankaranarayanan, Siram (https://experts.colorado.edu/display/fisid_147413/) Associate Professor; PhD, Stanford University
Shields, C. Wyatt IV  
Assistant Professor; PhD, Duke University

Sprenger, Kayla  
Assistant Professor; PhD, University of Washington

Stansbury, Jeffrey W.  
Professor; PhD, University of Maryland

Tan, Wei (https://experts.colorado.edu/display/fisid_141464/)  
Associate Professor; PhD, University of Illinois at Chicago

Yeh, Tom (https://experts.colorado.edu/display/fisid_151584/)  
Assistant Professor; PhD, Massachusetts Institute of Technology

Courses

**BMEN 5840 (1-6) Independent Study**
Provides opportunities for independent study at the graduate level.  
Subject and/or project agreed upon by the student and instructor to fit the needs of the student.  
**Repeatable:** Repeatable for up to 30.00 total credit hours.  
**Requisites:** Restricted to Biomedical Engineering (BMEN-MS) graduate students only.

**BMEN 6950 (1-6) Master's Thesis**
Work with a faculty advisor on a masters thesis.  
**Repeatable:** Repeatable for up to 6.00 total credit hours.  
**Requisites:** Restricted to Biomedical Engineering (BMEN-MS) graduate students only.

**BMEN 8990 (1-10) Doctoral Dissertation**
Work with a faculty advisor on a doctoral dissertation.  
**Repeatable:** Repeatable for up to 60.00 total credit hours.  
**Requisites:** Restricted to Biomedical Engineering (BMEN) Ph.D. graduate students only.